

**SIGNAL QUALITY ESTIMATION IN
A WIRELESS COMMUNICATION SYSTEM**

Abstract of the Disclosure

5 In a wireless system including a wireless communication channel, a method for estimating
a signal quality of a received signal includes the steps of receiving a signal from the wireless
communication channel, the received signal including at least one field that is modulated and
encoded in a substantially fixed manner, and generating at least one reference field based, at least
in part, on the at least one field and on a channel estimation signal. The channel estimation signal
is representative of at least one characteristic of the wireless communication channel. The method
10 further includes the step of generating a signal quality estimate as a function of the at least one field
in the received signal and the generated at least one reference field.